

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|--------|--|---|------------------|---------|------------------|
| L1 | 1 | ("20050036238").PN. | US-PGPUB; USPAT | OR | OFF | 2005/05/16 14:31 |
| L2 | 5 | ((("20050036238") or ("6775108") or ("20030081359") or ("20020176208") or ("6842308"))).PN. | US-PGPUB; USPAT | OR | OFF | 2005/05/16 15:13 |
| L3 | 6 | ((("20050036238") or ("6775108") or ("20030081359") or ("20020176208") or ("6842308") or ("6456466"))).PN. | US-PGPUB; USPAT | OR | OFF | 2005/05/16 15:18 |
| L4 | 862891 | "112" | US-PGPUB; USPAT | OR | OFF | 2005/05/16 15:18 |
| L5 | 4 | l3 and l4 | US-PGPUB; USPAT | OR | OFF | 2005/05/16 15:22 |
| L6 | 1964 | piggy adj2 back | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/05/16 15:45 |
| L7 | 53202 | (shield or shielded or shielding) adj4 (sensor or head or element or unit or layer) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/05/16 15:48 |
| L8 | 172170 | (read or reproduc\$4) adj4 (sensor or head or element or unit or layer) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/05/16 15:47 |
| L9 | 323133 | (write or record\$4) adj4 (sensor or head or element or unit or layer) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/05/16 15:47 |
| L10 | 81581 | l6 anf l8 and l9 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/05/16 15:47 |

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|-----|------|--|---|----|-----|------------------|
| L11 | 74 | I6 and I8 and I9 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/05/16 15:47 |
| L12 | 1173 | (shield or shielded or shielding) same ((coefficient near15 (thermal adj4 expansion)) or (thermal near15 (coefficient adj4 expansion)) or (expansion near15 (thermal adj4 coefficient)) or (expansion near15 (coefficient adj4 thermal))) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/05/16 15:51 |
| L13 | 2 | I11 and I12 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/05/16 15:52 |
| L14 | 33 | I8 and I9 and I12 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/05/16 15:52 |

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|-------|--------|--|---|------------------|---------|------------------|
| L1 | 1 | ("20050036238").PN. | US-PGPUB; USPAT | OR | OFF | 2005/05/16 14:31 |
| L2 | 5 | ((("20050036238") or ("6775108") or ("20030081359") or ("20020176208") or ("6842308"))).PN. | US-PGPUB; USPAT | OR | OFF | 2005/05/16 15:13 |
| L3 | 6 | ((("20050036238") or ("6775108") or ("20030081359") or ("20020176208") or ("6842308") or ("6456466"))).PN. | US-PGPUB; USPAT | OR | OFF | 2005/05/16 15:18 |
| L4 | 862891 | "112" | US-PGPUB; USPAT | OR | OFF | 2005/05/16 15:18 |
| L5 | 4 | I3 and I4 | US-PGPUB; USPAT | OR | OFF | 2005/05/16 15:22 |
| L6 | 1964 | piggy adj2 back | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/05/16 15:45 |
| L7 | 53202 | (shield or shielded or shielding) adj4 (sensor or head or element or unit or layer) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/05/16 15:48 |
| L8 | 172170 | (read or reproduc\$4) adj4 (sensor or head or element or unit or layer) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/05/16 15:47 |
| L9 | 323133 | (write or record\$4) adj4 (sensor or head or element or unit or layer) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/05/16 15:47 |
| L10 | 81581 | I6 anf I8 and I9 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/05/16 15:47 |

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|-----|-------|---|---|----|-----|------------------|
| L11 | 74 | I6 and I8 and I9 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/05/16 17:19 |
| L12 | 1173 | (shield or shielded or shielding) same ((coefficient near15 (thermal adj4 expansion)) or (thermal near15 (coefficient adj4 expansion)) or (expansion near15 (thermal adj4 coefficient)) or (expansion near15 (coefficient adj4 thermal))) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/05/16 15:51 |
| L13 | 2 | I11 and I12 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/05/16 15:52 |
| L14 | 33 | I8 and I9 and I12 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/05/16 15:52 |
| L15 | 72 | I11 not I14 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/05/16 17:27 |
| L16 | 260 | (read or reproduc\$4) same (write or record\$4) same (separat\$4 adj10 ((non\$3magnetic) or insulation)) | USPAT; JPO | OR | OFF | 2005/05/16 17:29 |
| L17 | 15598 | shield\$2 and pole\$2 | USPAT; JPO | OR | OFF | 2005/05/16 17:29 |
| L18 | 87 | I16 and I17 | USPAT; JPO | OR | OFF | 2005/05/16 17:30 |
| L19 | 86 | I18 not I15 not I14 | USPAT; JPO | OR | OFF | 2005/05/16 17:30 |

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|--------|---|---|------------------|---------|------------------|
| L1 | 40 | (side\$2 adj4 (shield or shielded or shielding)) same ((coefficient near15 (thermal adj4 expansion)) or (thermal near15 (coefficient adj4 expansion)) or (expansion near15 (thermal adj4 coefficient)) or (expansion near15 (coefficient adj4 thermal)))) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/05/16 18:54 |
| L2 | 172170 | (read or reproduc\$4) adj4 (sensor or head or element or unit or layer) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/05/16 18:53 |
| L3 | 323133 | (write or record\$4) adj4 (sensor or head or element or unit or layer) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/05/16 18:53 |
| L4 | 29671 | side\$2 adj4 (shield or shielded or shielding) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/05/16 18:54 |
| L5 | 449 | I2 and I3 and I4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/05/16 18:54 |
| L6 | 1173 | (shield or shielded or shielding) same ((coefficient near15 (thermal adj4 expansion)) or (thermal near15 (coefficient adj4 expansion)) or (expansion near15 (thermal adj4 coefficient)) or (expansion near15 (coefficient adj4 thermal)))) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/05/16 18:54 |
| L7 | 6 | I5 and I6 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/05/16 18:54 |